

Datasheet for ABIN7555274
DIS3 Protein (AA 1-958) (His tag)



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Overview

Quantity:	1 mg
Target:	DIS3
Protein Characteristics:	AA 1-958
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DIS3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DIS3 Protein expressed in mammalian cells.
Sequence:	MLKSKTFLKK TRAGGVMKIV REHYLRDDIG CGAPGCAACG GAHEGPALEP QPQDPASSVC PQPHYLLPDT NVLLHQIDVL EDPAIRNVIV LQTVLQEVNR RSAPVYKRIR DVTNNQEKFH YTFTNEHHRE TYVEQEQGEN ANDRNDRAIR VAAKWYNEHL KKMSADNQLQ VIFITNDRRN KEKAIEEGIP AFTCEEYVKS LTANPELIDR LACLSEEGNE IESGKIIFSE HLPLSKLQQG IKSGTYLQGT FRASRENYLE ATVWIHGDN ENKEILQGL KHLNRAVHED IVAVELLPKS QWVAPSSVWL HDEGQNEEDV EKEEETERML KTAVSEKMLK PTGRVVGIIK RNWRPYCGML SKSDIKESRR HLFTPADKRI PRIRIETRQA STLEGRIIV AIDGWPRNSR YPNGHFVRNL GDVGEKETET EVLLEHDVP HQPFSQAVLS FLPKMPWSIT EKDMKNREDL RHLCCSVDP PGCTDIDDAL HCRELEGNL EVGVHIADVS HFIRPGNALD QESARRGTTV YLCEKRIDMV PELLSSNLCS LKCDVDLAF SCIWEMNHNA EILKTKFTKS VINSKASLT Y AEAQLRIDS A NMNDDITSL RGLNKLAKIL KKRRIEK GAL TLSSPEVRFH MDSETHDPID LQTKELRETN SMVEEFMLLA NISVAKKIHE EFSEHALLRK HPAPPPSNYE ILVKAARSRN LEIKTDTAKS

Product Details

LAESLDQAES PTFPYLNTLL RILATRCMMQ AVYFCSGMDN DFHHYGLASP IYTHFTSPIR
RYADVIVHRL LAVAIGADCT YPELTDKHKL ADICKNLNFR HKMAQYAQRA SVAFHTQLFF
KSKGIVSEEA YILFVRKNAI VVLIPKYGLE GTVFFEEKDK PNPQLIYDDE IPSLKIEDTV
FHFVDFKVKVK IMLDSSNLQH QKIRMSLVEP QIPGISIPTD TSNMDLNGPK KKKMKLGK **Sequence
without tag. The proposed Purification-Tag is based on experiences with the expression
system, a different complexity of the protein could make another tag necessary. In case you
have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: DIS3

Alternative Name: DIS3 ([DIS3 Products](#))

Background: Exosome complex exonuclease RRP44 (EC 3.1.13.-) (EC 3.1.26.-) (Protein DIS3 homolog) (Ribosomal RNA-processing protein 44),FUNCTION: Putative catalytic component of the RNA exosome complex which has 3'→5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is

Target Details

involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. DIS3 has both 3'-5' exonuclease and endonuclease activities. {ECO:0000269|PubMed:19056938, ECO:0000269|PubMed:20531386}.

Molecular Weight: 109.0 kDa

UniProt: [Q9Y2L1](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months